

FIG. 1A

FIG. 1B is a block diagram of a network architecture showing a connection between an Internet cloud (8) and a local network. The Internet cloud (8) is connected to a DSL Router (2), which is connected to a Bastion (exposed) host (1). The Bastion (exposed) host (1) is connected to a Hub (6). The Hub (6) is connected to a Web & FTP Server (5a) and a Streaming Audio Server (5b). The Bastion (exposed) host (1) is also connected to a group of Internal (protected) hosts (4a, 4b). The Internal (protected) hosts (4a, 4b) are connected to a group of External (untrusted) hosts (3). The External (untrusted) hosts (3) are connected to the DSL Router (2).

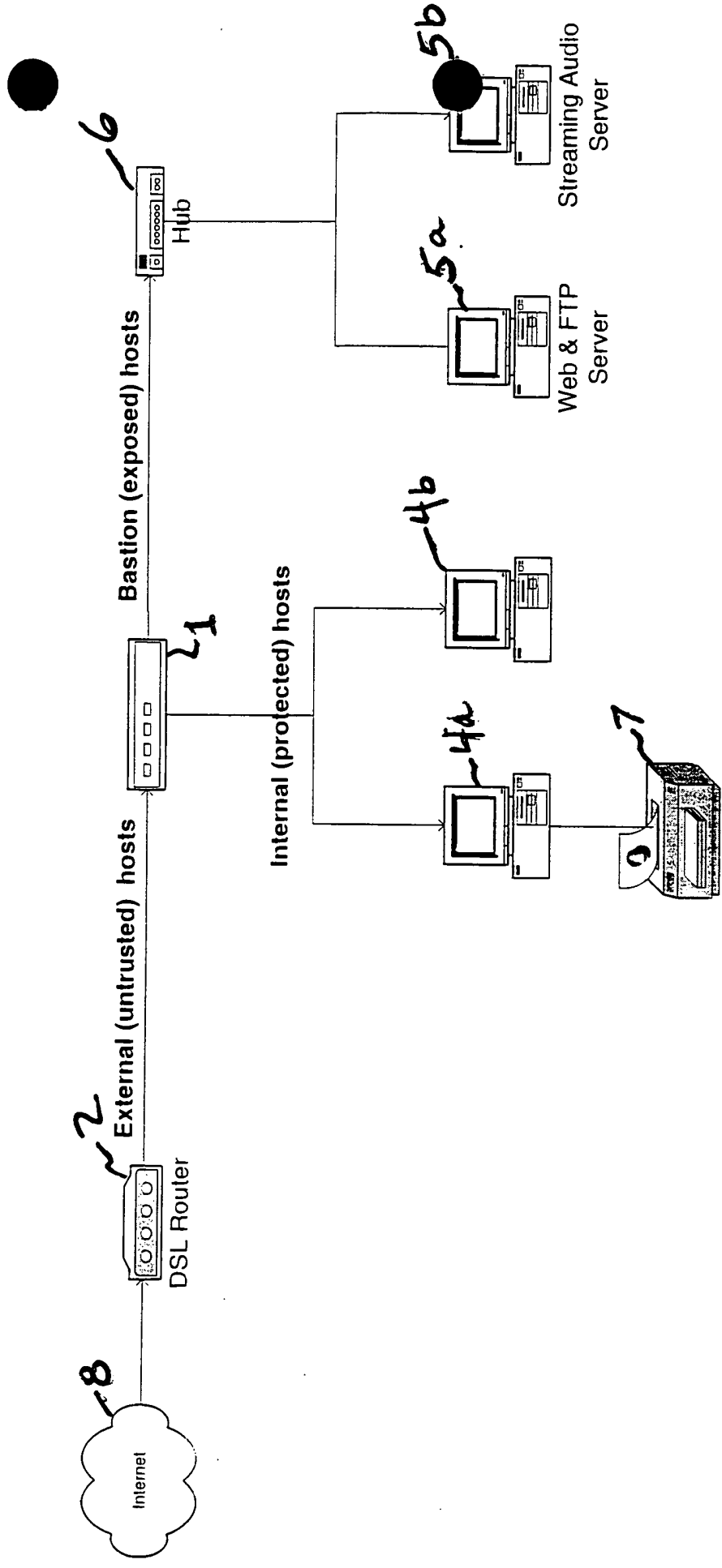


FIG. 1B

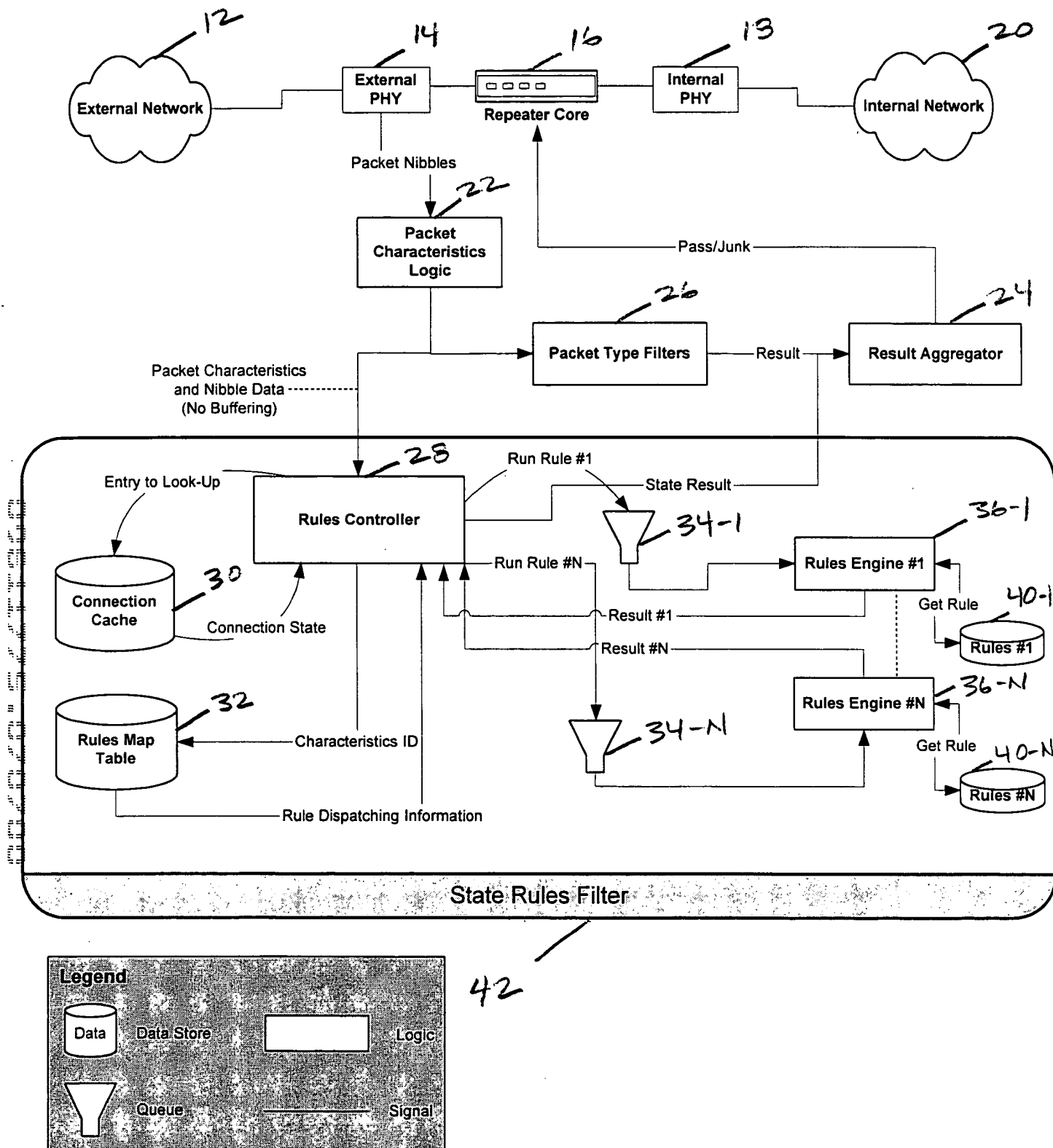


FIG. 2

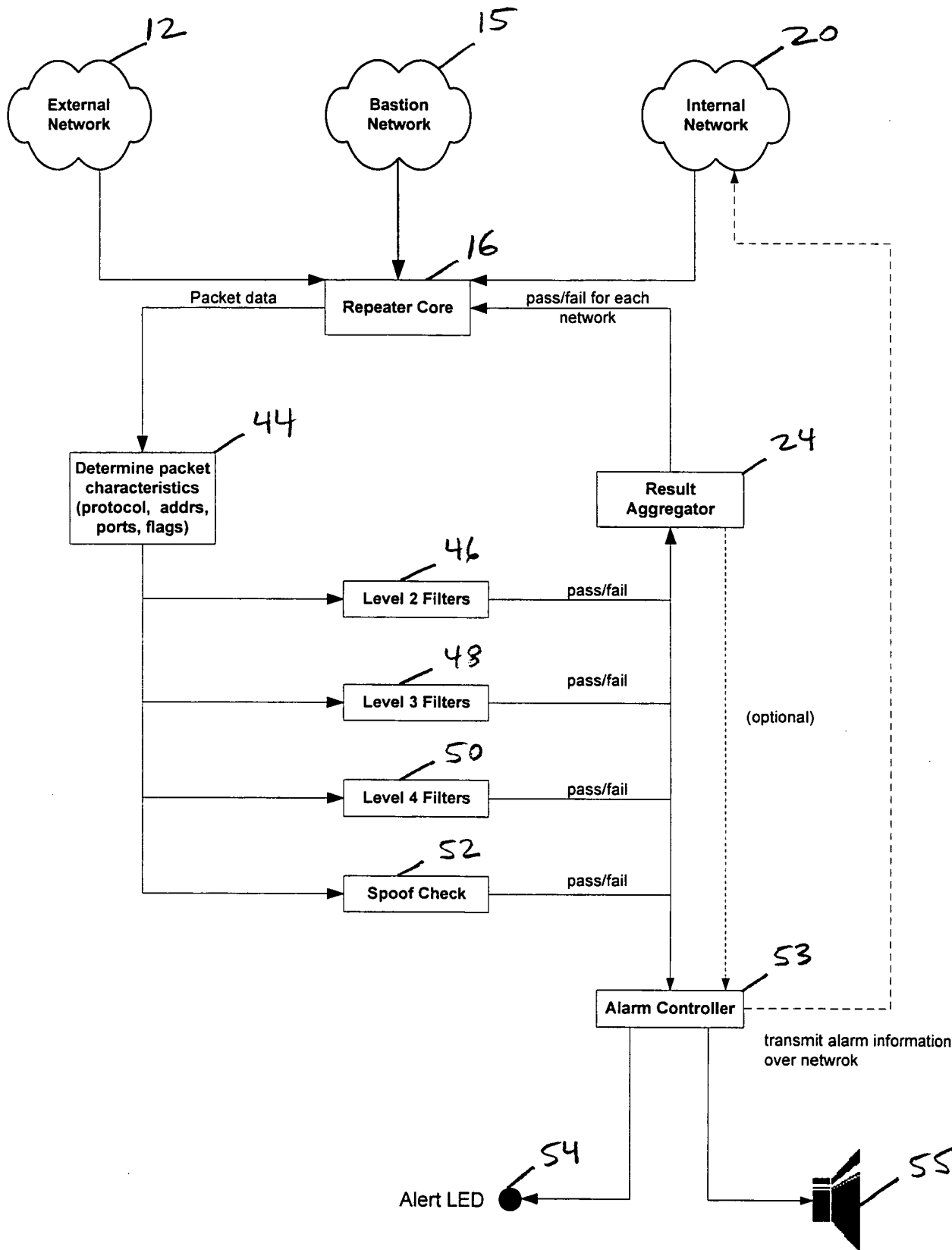


FIG. 3

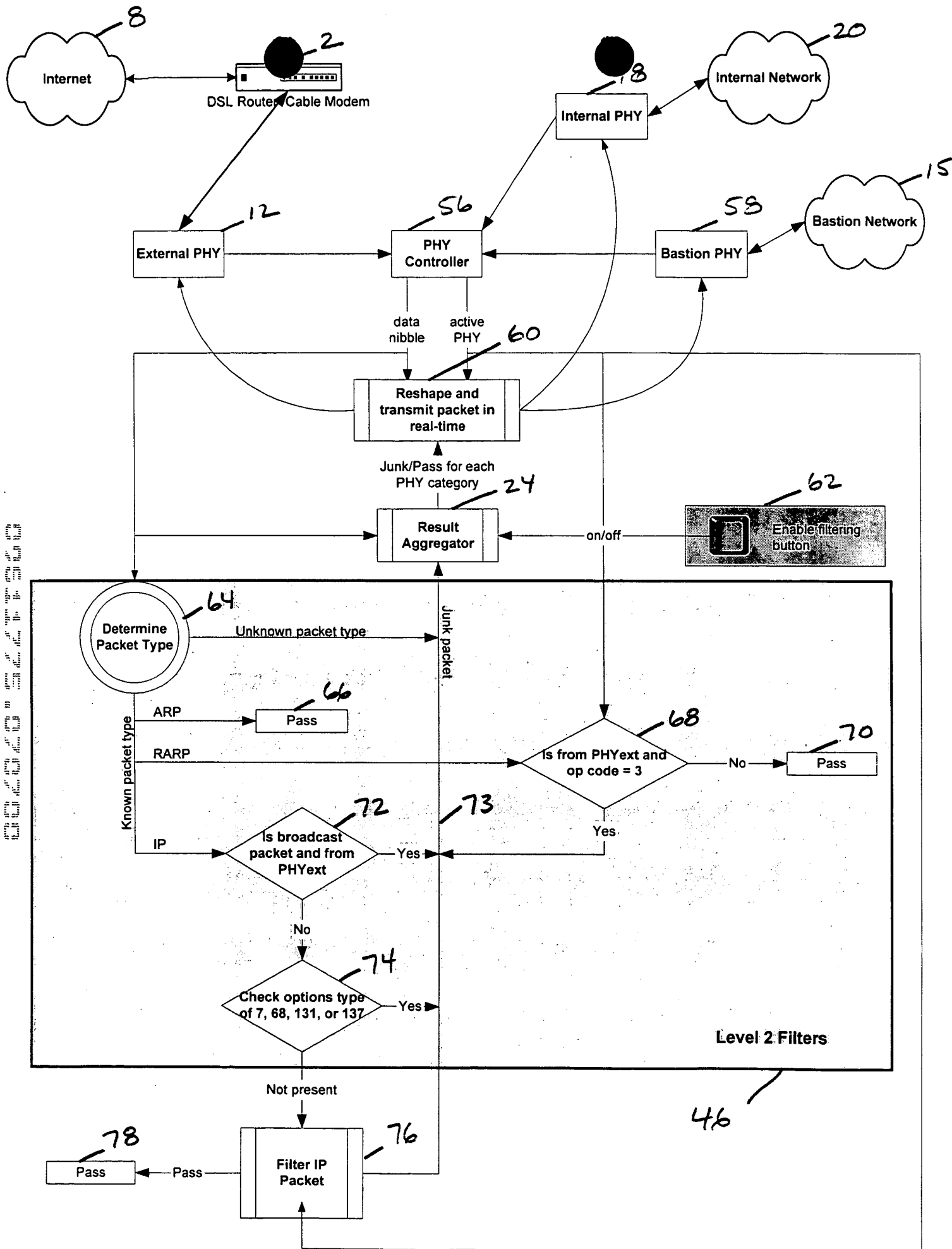


FIG. 4

Level 3 Filters

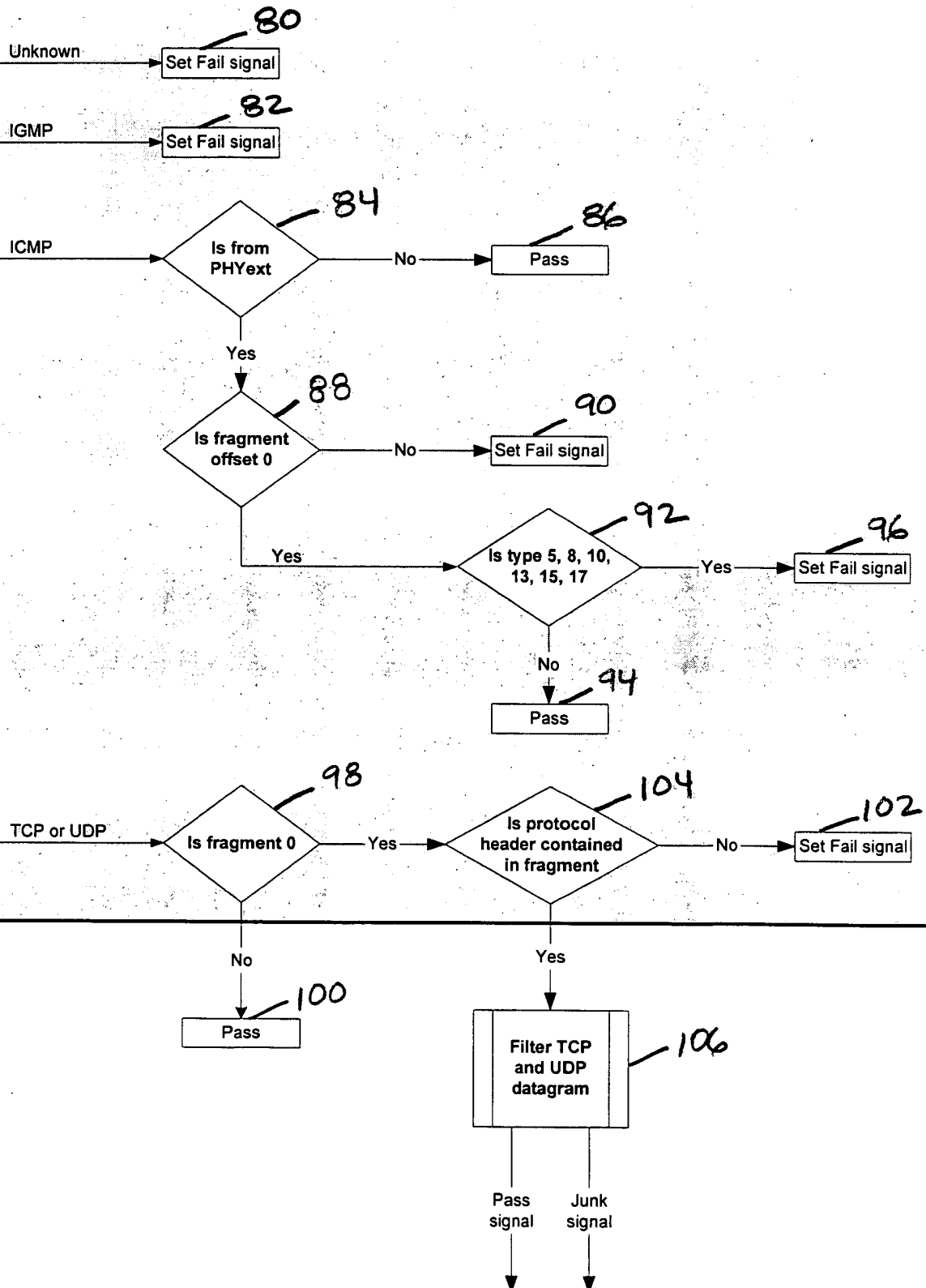
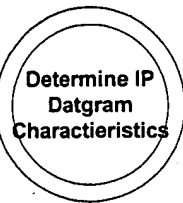


FIG. 5



Legend

- port-i: internal port number
- port-e: external port number
- int: internal (LAN) network connection
- ext: external (Internet) network connection
- PHY-e: internal physical layer chip
- PHY-e: external physical layer chip

1

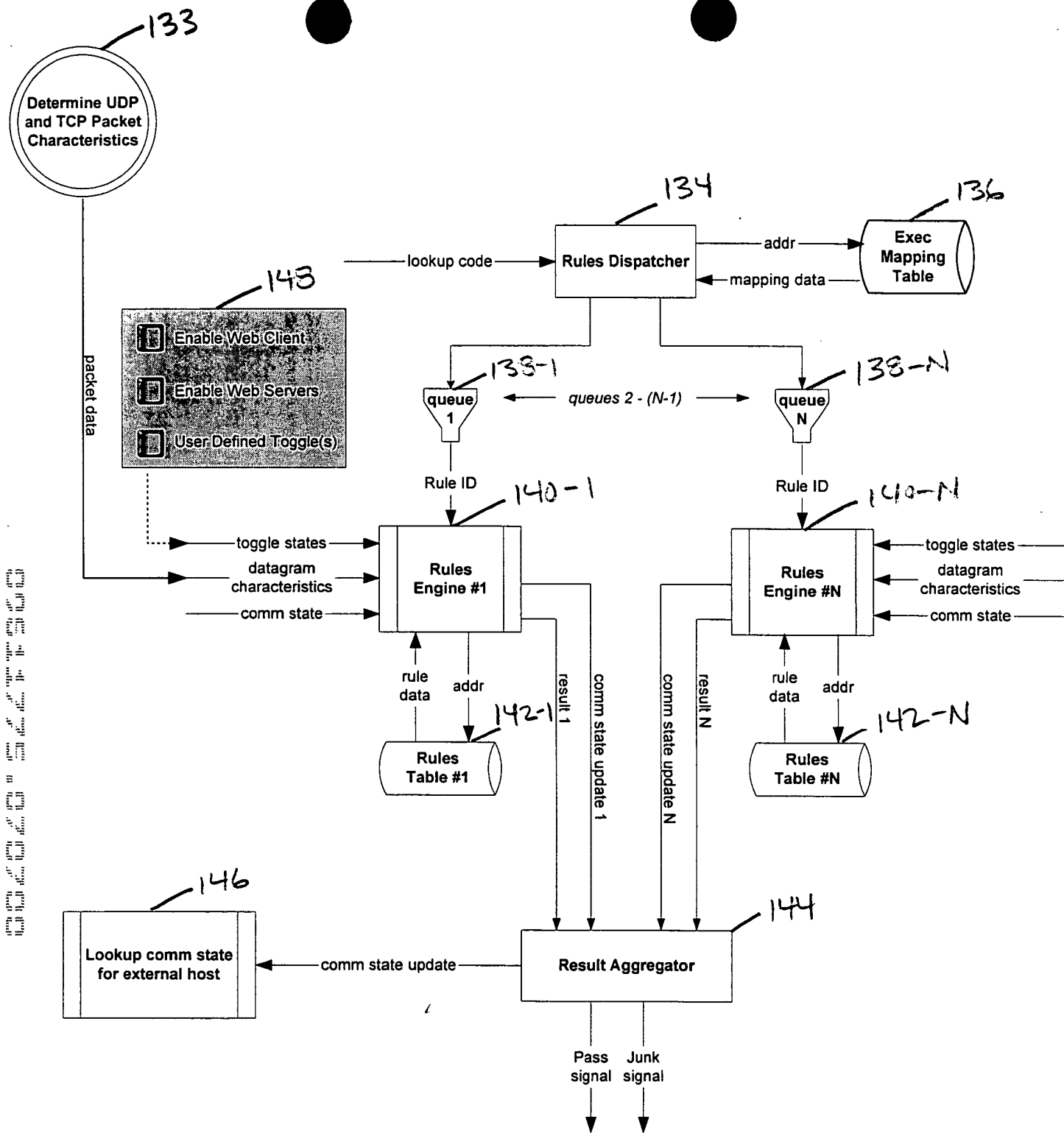


FIG. 7

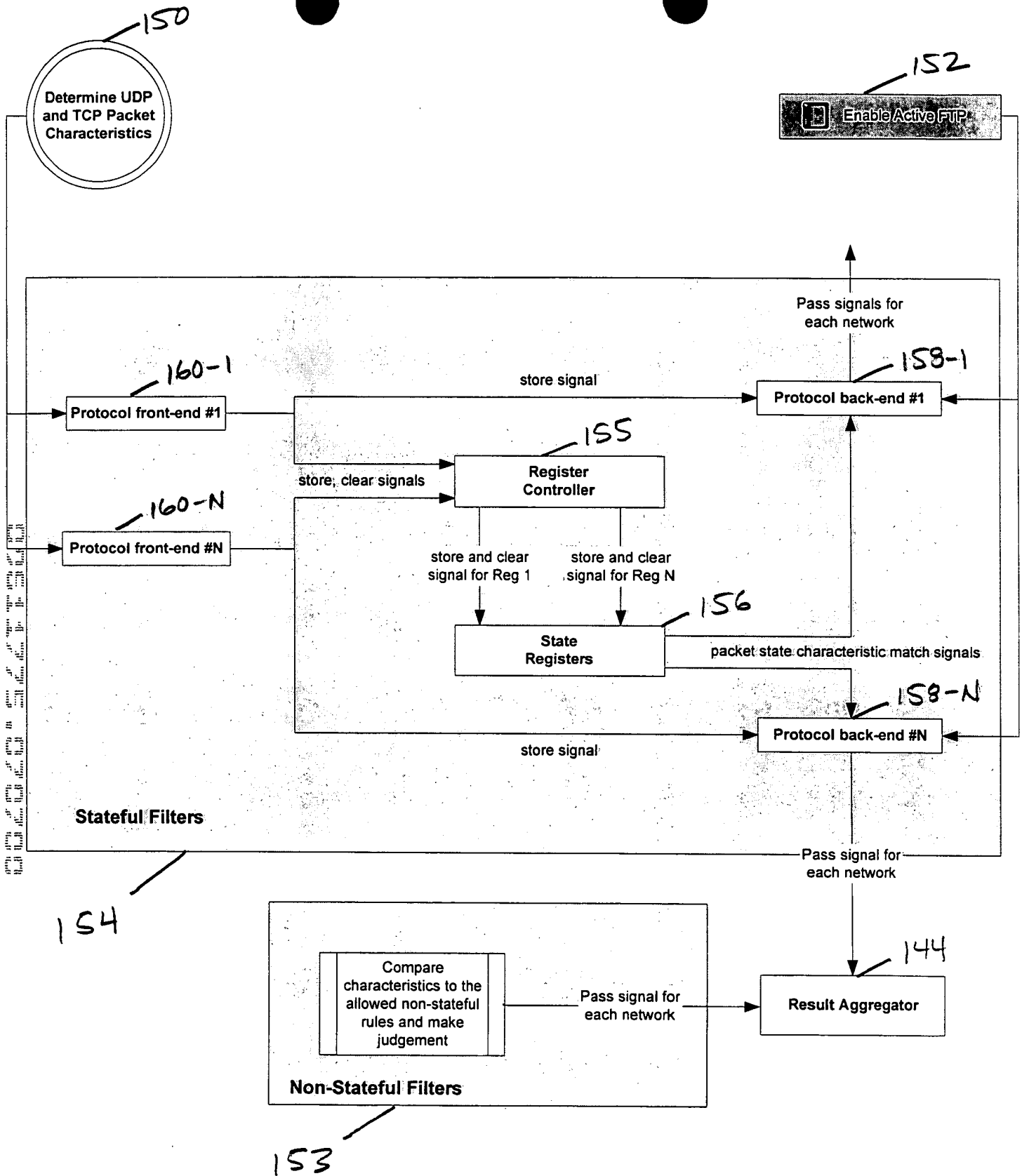


FIG. 8

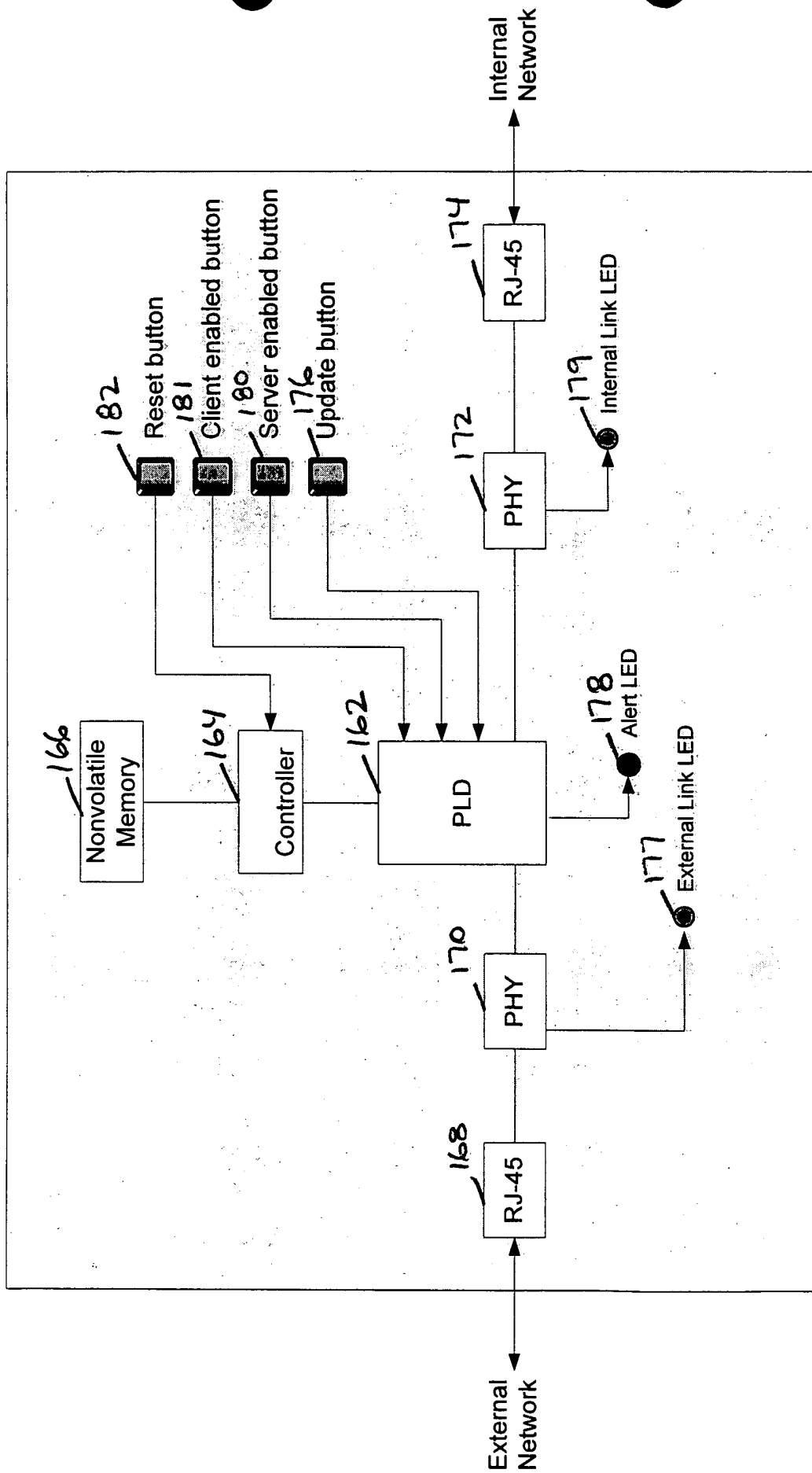


FIG. 9

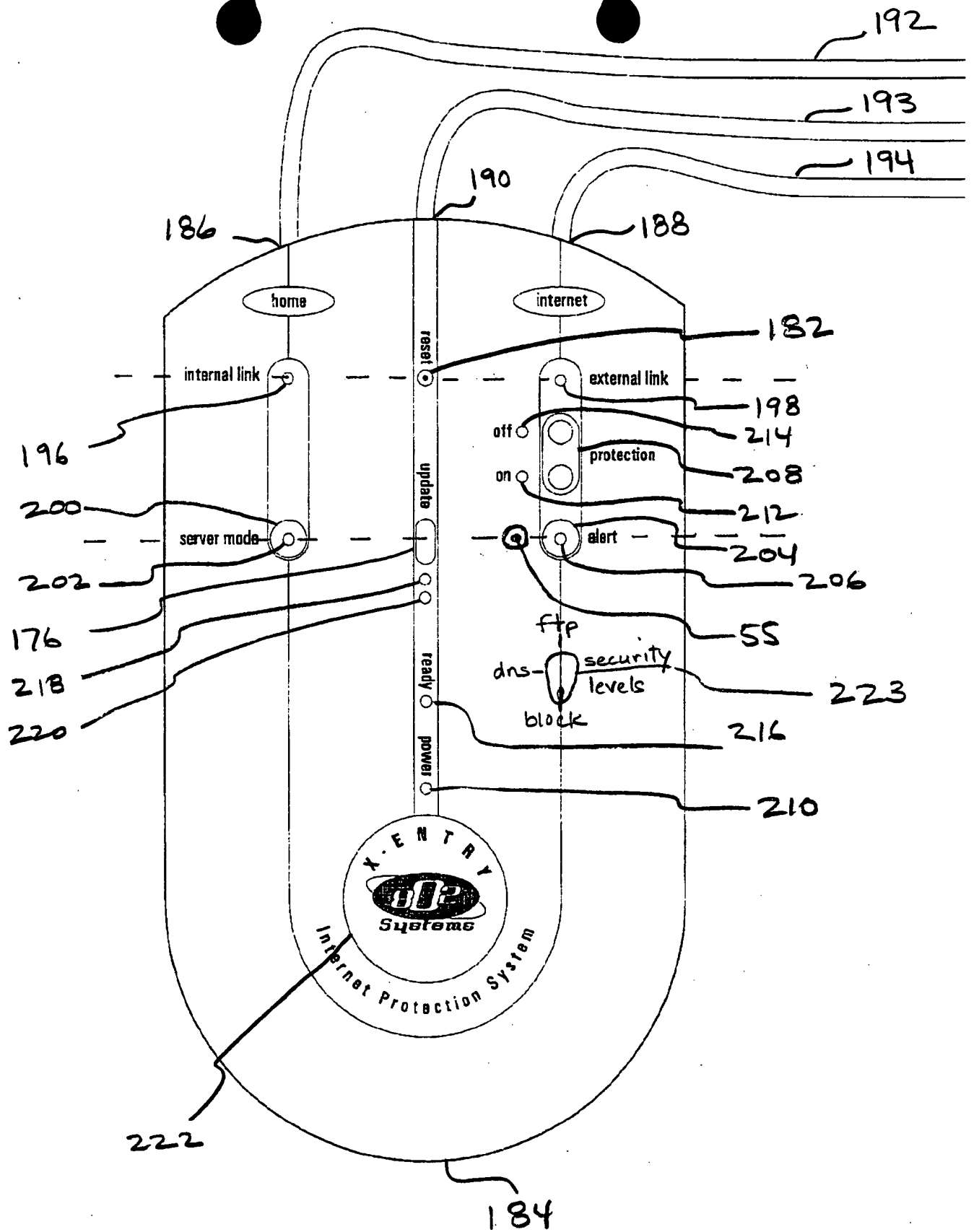


FIG.10

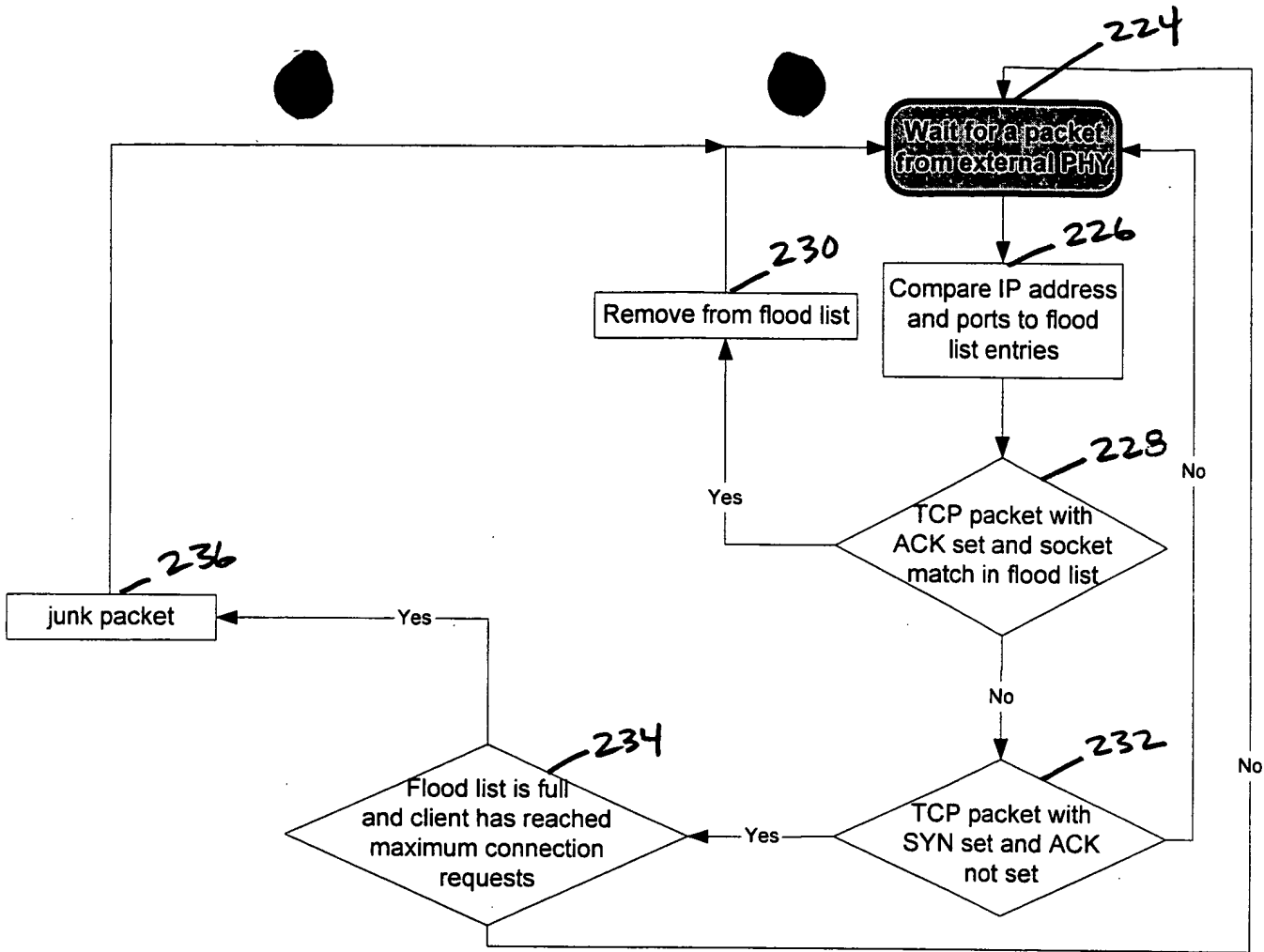


FIG. 11

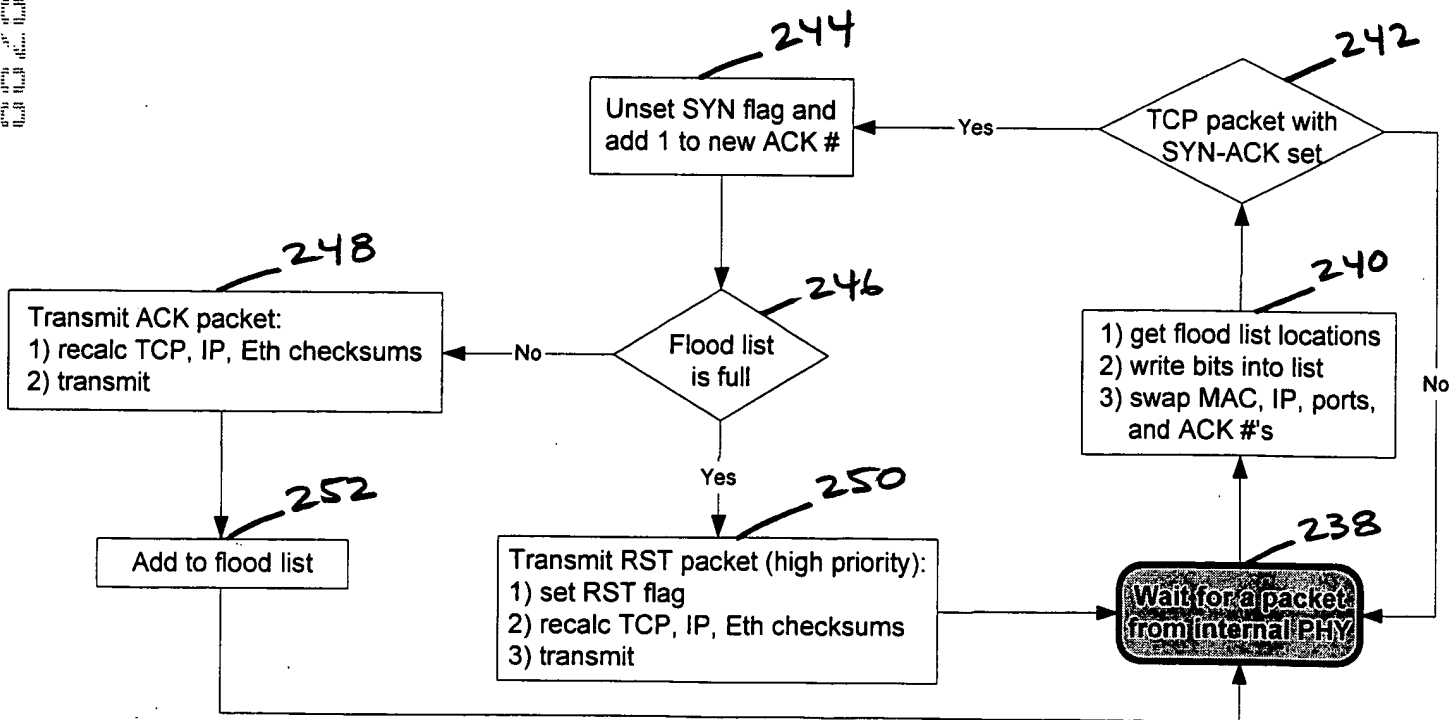


FIG. 12

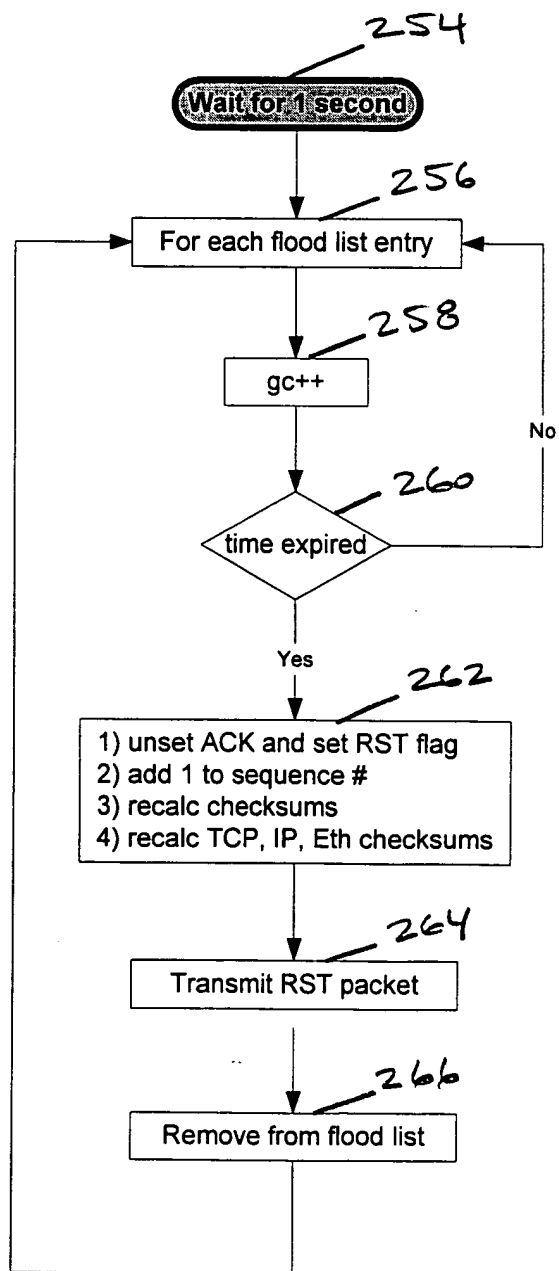


FIG. 13